

10/802,074

=> fil reg

FILE 'REGISTRY' ENTERED AT 08:28:18 ON 17 MAY 2006

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FILE 'REGISTRY' ENTERED AT 07:29:56 ON 17 MAY 2006

L1 STR  
L2 STR L1  
L3 0 S L2

FILE 'HCAPLUS' ENTERED AT 07:36:58 ON 17 MAY 2006

L4 1 S US20040249099/PN  
SEL RN

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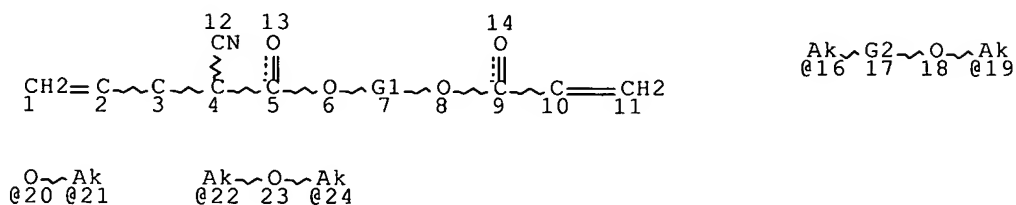
L5 34 S E1-E34  
L6 8 S L2 FUL  
L7 8 S L6 AND L5  
SAV L6 LIP074A/A

FILE 'HCAPLUS' ENTERED AT 07:39:59 ON 17 MAY 2006

L8 2 S L6

=> d que 18

L2 STR



VAR G1=AK/22-6 24-8/16-6 19-8/CY

REP G2=(0-10) 20-16 21-18

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

L6 8 SEA FILE=REGISTRY SSS FUL L2

L8 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L6

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 08:28:35 ON 17 MAY 2006

=> d l8 1-2 ibib abs hitstr hitind

L8 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1997:810256 HCAPLUS Full-text  
DOCUMENT NUMBER: 128:23255  
TITLE: 2-Cyano-2,4-pentadienoic acid acrylic ester  
reactive monomers, manufacture thereof,  
adhesives, coatings, compositions, polymers,  
and electron-beam and photoresists using the  
same  
INVENTOR(S): Kotzev, Dimiter Lubomirov  
PATENT ASSIGNEE(S): Chemence Limited, UK  
SOURCE: Brit. UK Pat. Appl., 22 pp.  
CODEN: BAXXDU  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
GB 2311520	A1	19971001	GB 1996-6328	1996 0326
GB 2311520	B2	19990811		
US 2004249099	A1	20041209	US 2004-802074	2004 0315
PRIORITY APPLN. INFO.:			GB 1996-6328	A 1996 0326
			US 1997-55791P	P 1997 0815
			US 1998-131275	B1 1998 0810

OTHER SOURCE(S): MARPAT 128:23255

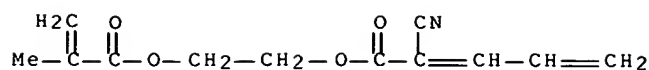
AB The title esters CH<sub>2</sub>:CHCH:C(CN)CO<sub>2</sub>R<sub>2</sub>O<sub>2</sub>CCR<sub>1</sub>:CH<sub>2</sub> (R<sub>1</sub> = H, Me; R<sub>2</sub> = alkyl, alkenyl, alkynyl, alkoxyalkyl, polyoxyalkyl, aryl, cycloalkyl, heterocyclic, with or without substituents including halogens) are synthesized by reaction of acrolein with the corresponding (meth)aryloyl(poly)oxyalkyl cyanoacetates. The resultant reactive monomers containing multiple unsatn. are capable of anionic, cationic and free-radical polymerization yielding from rubbery or thermoplastic to highly crosslinked products depending on the degree of cure. The reactive monomers can be used for structural adhesives both in industry and medicine, for coatings, and in photo or electron beam resist manufacture

IT 53628-79-8P 199331-02-7P 199331-04-9P

(cyanopentadienoic acid acrylic ester reactive monomers, manufacture thereof, adhesives, coatings, compns., polymers, and electron-beam and photoresists using the same)

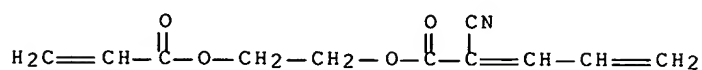
RN 53628-79-8 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester (9CI) (CA INDEX NAME)



RN 199331-02-7 HCAPLUS

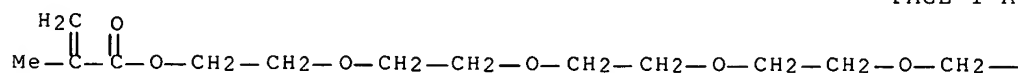
CN 2,4-Pentadienoic acid, 2-cyano-, 2-[(1-oxo-2-propenyl)oxy]ethyl ester (9CI) (CA INDEX NAME)



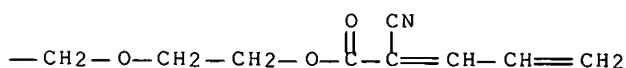
RN 199331-04-9 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-, 20-methyl-19-oxo-3,6,9,12,15,18-hexaoxaheneicos-20-en-1-yl ester (9CI) (CA INDEX NAME)

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IT 199331-01-6P 199331-03-8P 199331-05-0P  
199331-06-1P 199331-07-2P

(cyanopentadienoic acid acrylic ester reactive monomers, manufacture thereof, adhesives, coatings, compns., polymers, and electron-beam and photoresists using the same)

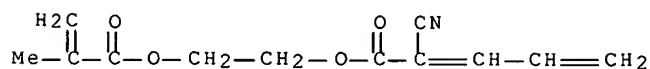
RN 199331-01-6 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 53628-79-8

CMF C12 H13 N O4

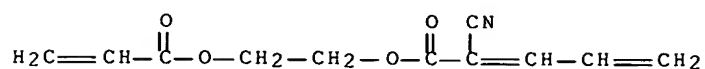


RN 199331-03-8 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-, 2-[(1-oxo-2-propenyl)oxy]ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 199331-02-7  
CMF C11 H11 N O4

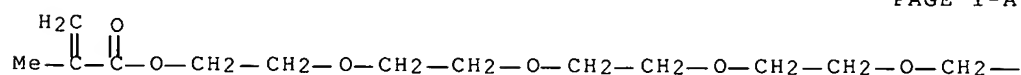


RN 199331-05-0 HCAPLUS

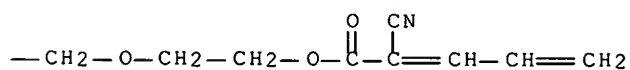
CN 2,4-Pentadienoic acid, 2-cyano-, 20-methyl-19-oxo-3,6,9,12,15,18-hexaoxaheneicos-20-en-1-yl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 199331-04-9  
CMF C22 H33 N O9



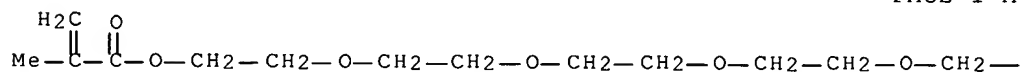
PAGE 1-A



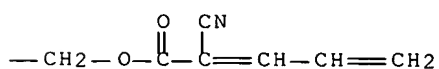
PAGE 1-B

RN 199331-06-1 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-, 17-methyl-16-oxo-3,6,9,12,15-pentaoxaoctadec-17-en-1-yl ester (9CI) (CA INDEX NAME)



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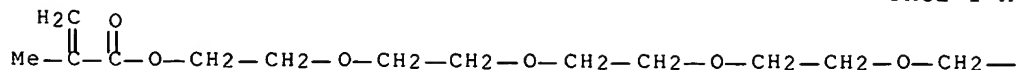
PAGE 1-B

RN 199331-07-2 HCAPLUS  
CN 2,4-Pentadienoic acid, 2-cyano-, 17-methyl-16-oxo-3,6,9,12,15-pentaoxaoctadec-17-en-1-yl ester, homopolymer (9CI) (CA INDEX NAME)

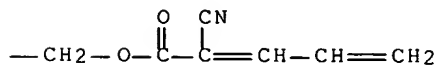
CM 1

CRN 199331-06-1  
CMF C20 H29 N O8

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IC ICM C07C255-07  
ICS C08F020-50  
CC 35-2 (Chemistry of Synthetic High Polymers)  
Section cross-reference(s): 23, 38, 42, 74  
IT 53628-79-8P 199331-02-7P 199331-04-9P  
199342-78-4P 199342-82-0P  
(cyanopentadienoic acid acrylic ester reactive monomers, manufacture thereof, adhesives, coatings, compns., polymers, and electron-beam and photoresists using the same)  
IT 199331-01-6P 199331-03-8P 199331-05-0P  
199331-06-1P 199331-07-2P 199342-80-8P  
199342-84-2P  
(cyanopentadienoic acid acrylic ester reactive monomers, manufacture thereof, adhesives, coatings, compns., polymers, and electron-beam and photoresists using the same)

L8 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1974:551489 HCAPLUS Full-text  
DOCUMENT NUMBER: 81:151489  
TITLE: Synthesis of 2-cyanopenta-2,4-dienoic acid esters  
AUTHOR(S): Trofimov, N. N.; Aronovich, D. A.; Etlis, V. S.; Pomerantseva, E. G.; Shmuilovich, S. M.  
CORPORATE SOURCE: USSR  
SOURCE: Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva im. D. I. Mendeleeva (1974), 19(4), 473-4  
CODEN: ZVKOA6; ISSN: 0373-0247  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian

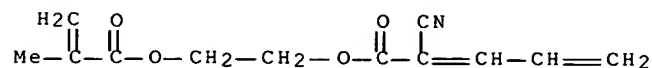
AB Acrolein reacted with NCCH<sub>2</sub>CO<sub>2</sub>R in dioxane in the presence of ZnCl<sub>2</sub> at pH 4.5-7 and <25° to give CH<sub>2</sub>:CHCH:C(CN)CO<sub>2</sub>R (R = e.g., Et, EtOCH<sub>2</sub>CH<sub>2</sub>, Ph, CH<sub>2</sub>:CH, CH<sub>2</sub>:CMeCO<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>).

IT 53628-79-8P

(preparation of)

RN 53628-79-8 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester (9CI) (CA INDEX NAME)



CC 23-19 (Aliphatic Compounds)

IT 13654-65-4P 26848-36-2P 53628-74-3P 53628-75-4P

53628-76-5P 53628-77-6P 53628-78-7P 53628-79-8P

(preparation of)